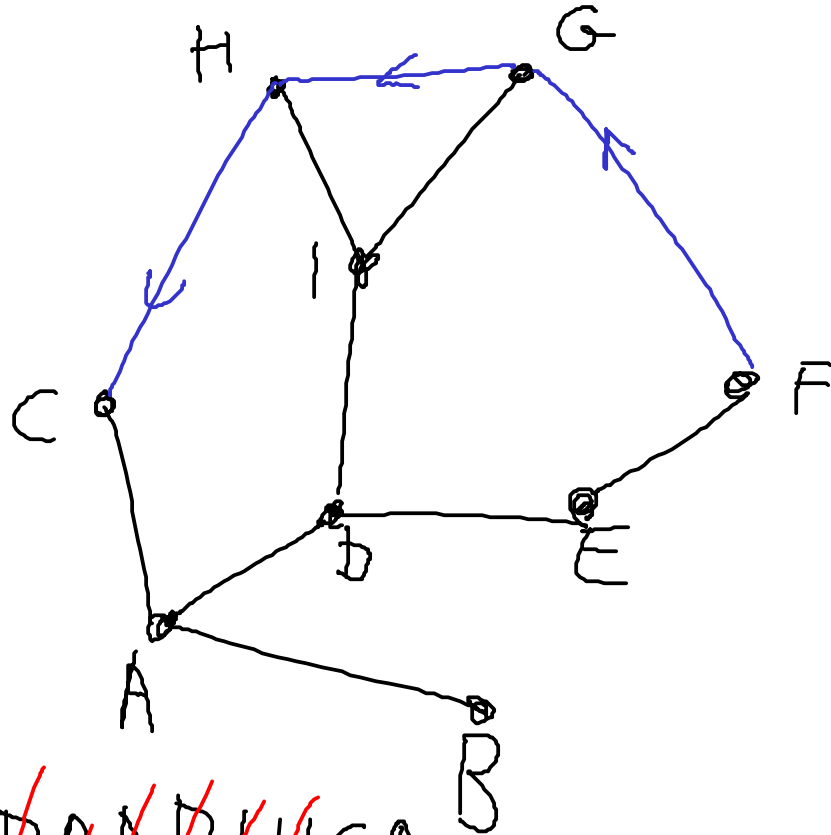


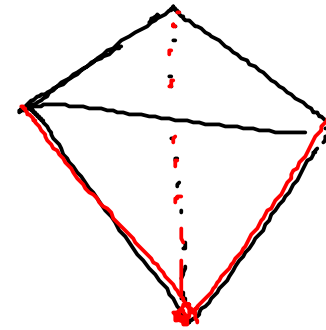
$\alpha = ADEFGHCA$

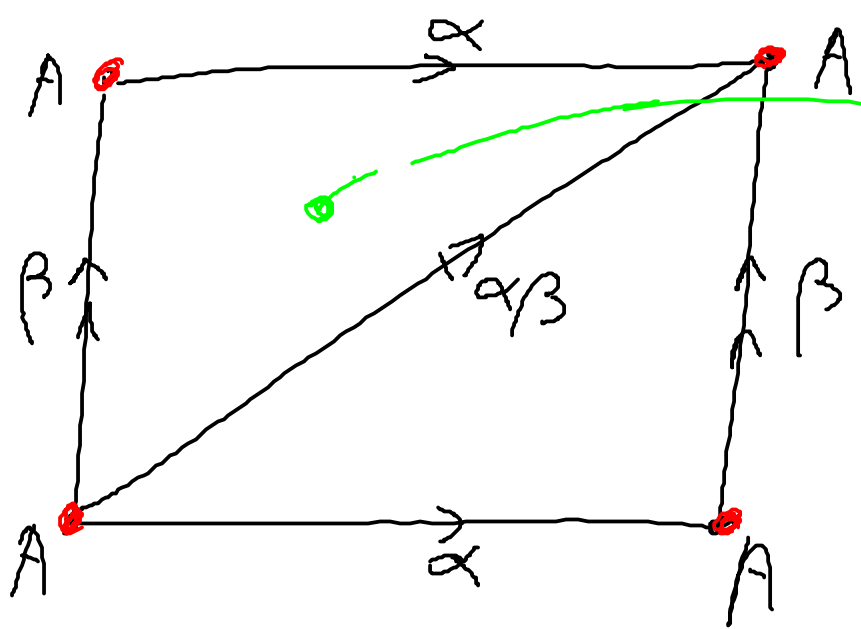
↓



$FG \mapsto ADEFGHCA$   
 $GH \mapsto ADIGH/DA$   
 $HC \mapsto ADIHCA$

~~ADEFGHCA~~  
~~DAADIGH~~  
~~DAADIHCA~~

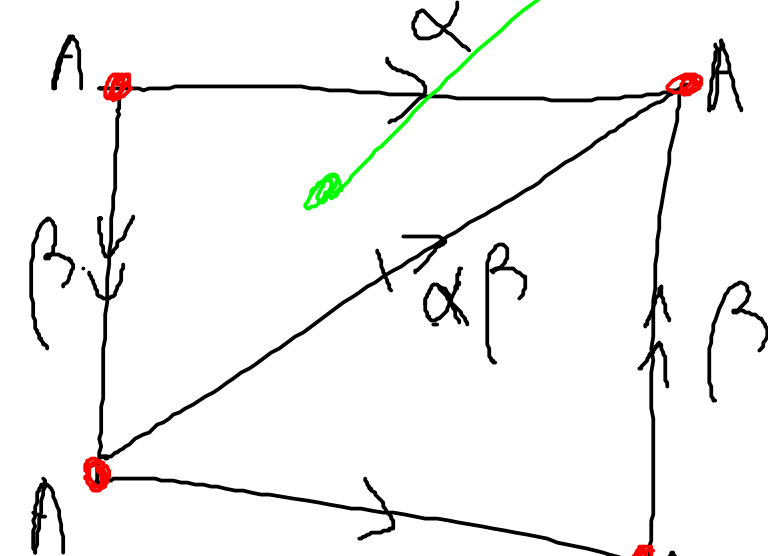




$$\alpha\beta = \beta^{-1}\alpha$$

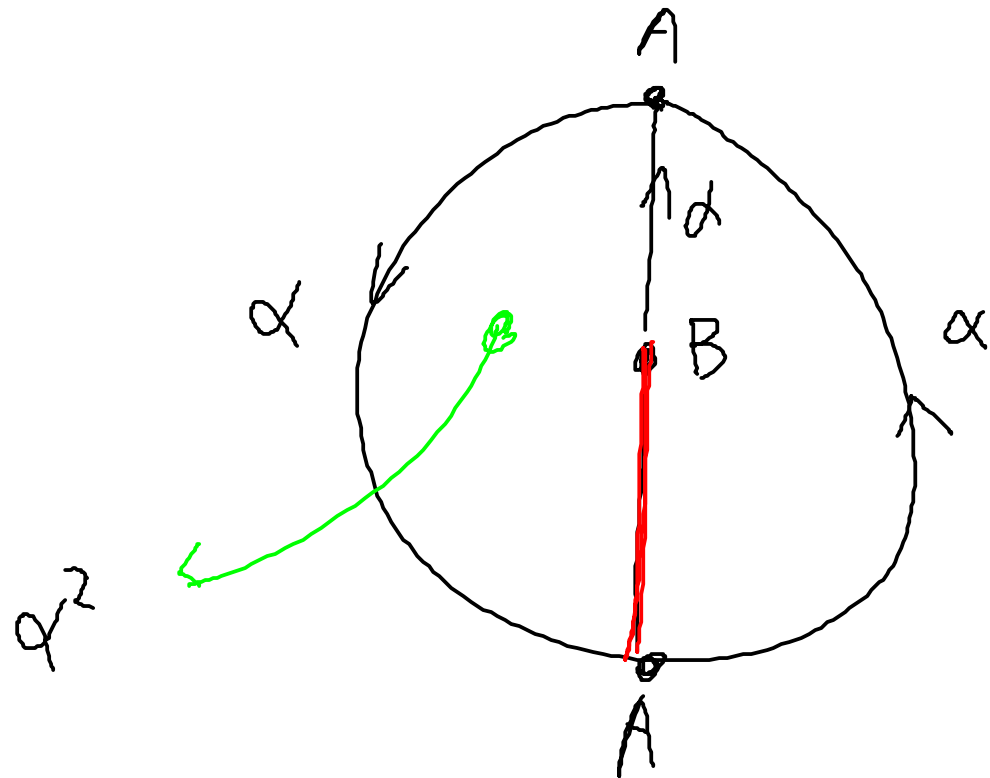
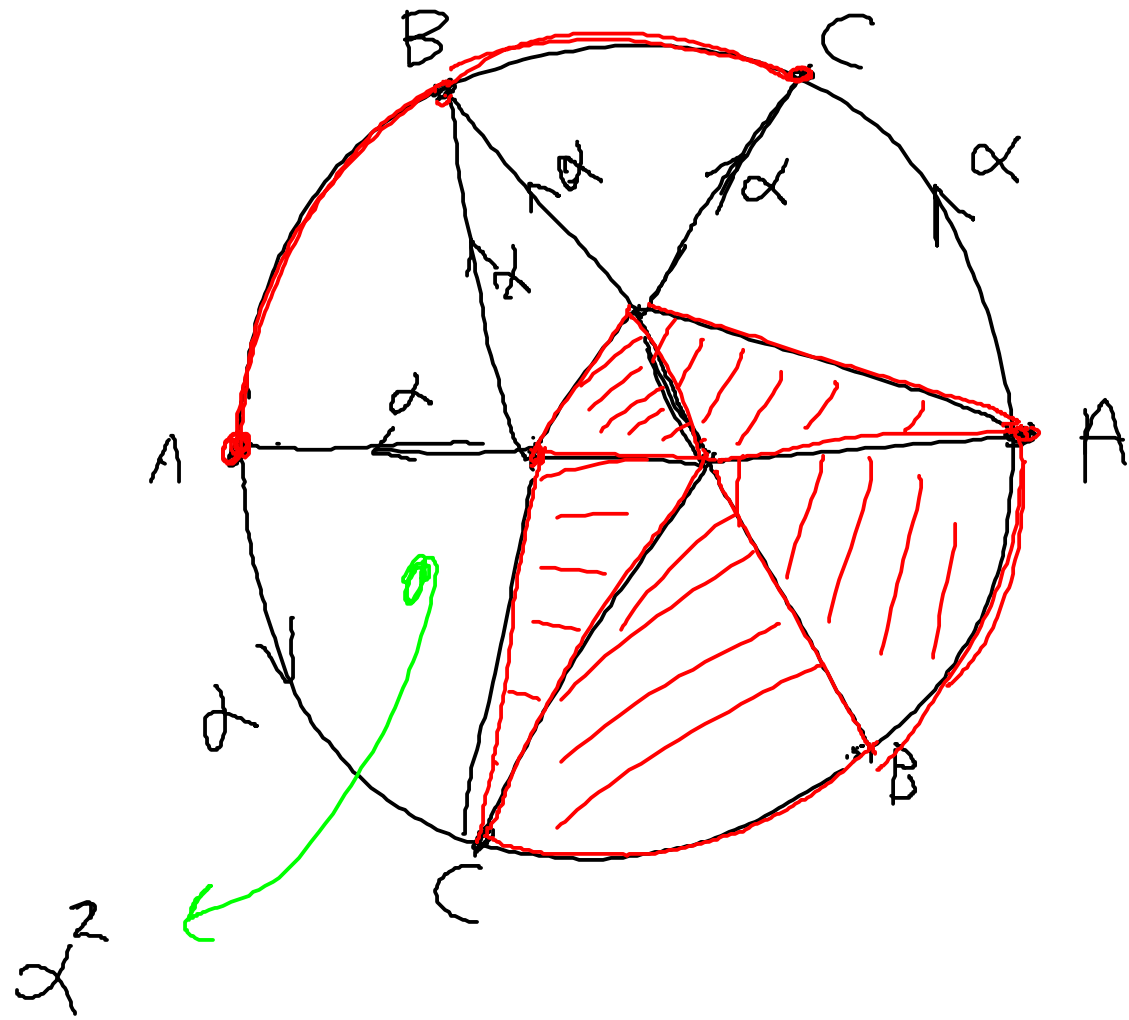
$$\alpha\beta\alpha^{-1}\beta^{-1}$$

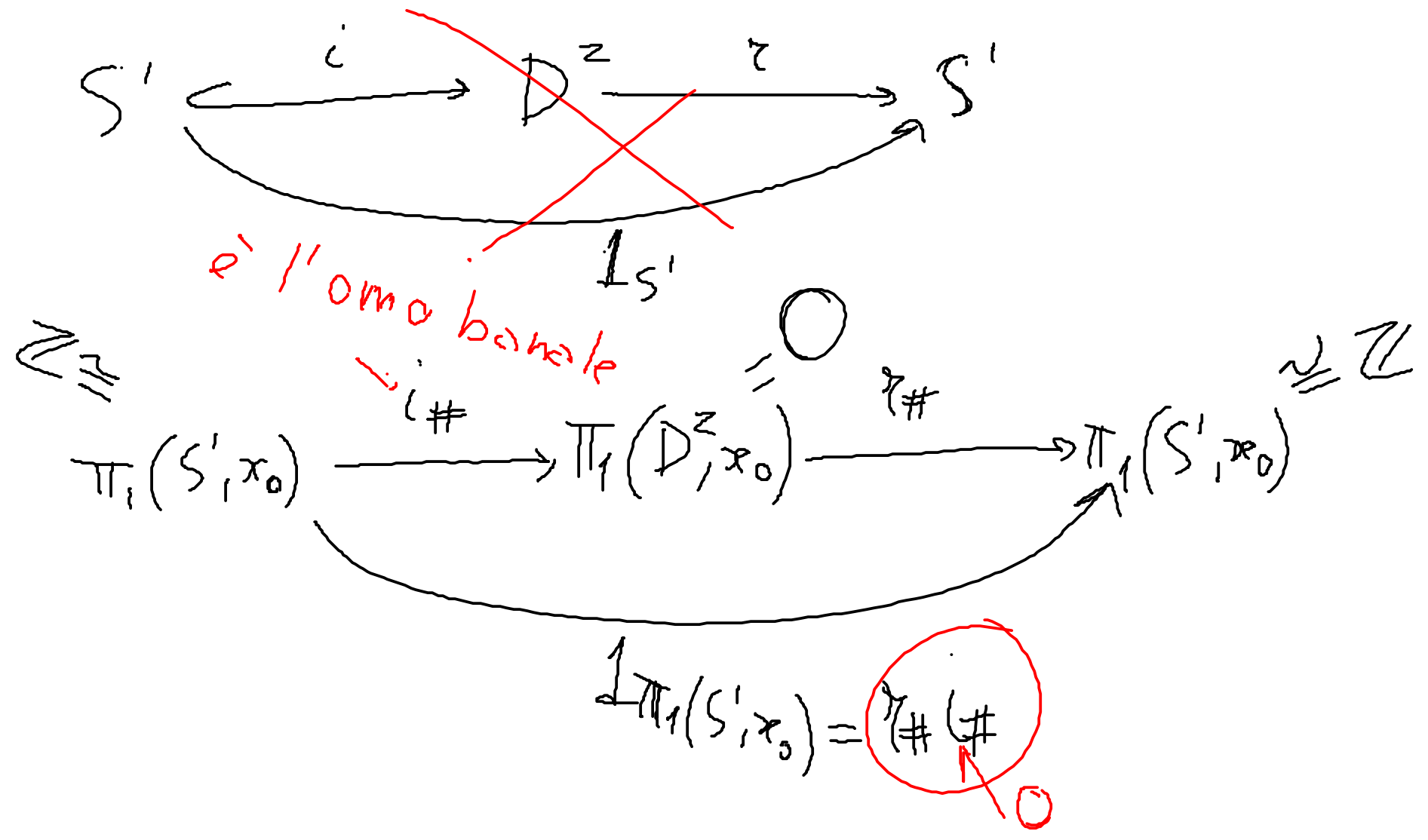
$$\alpha\beta\alpha^{-1}\beta$$



$$\pi_1(\text{Klein}) \cong \langle \alpha, \beta \mid \alpha\beta\alpha^{-1}\beta \rangle$$

$$\pi_1(\mathbb{R}P^2) \cong \langle \alpha \mid \alpha^2 \rangle \cong \mathbb{Z}_2$$

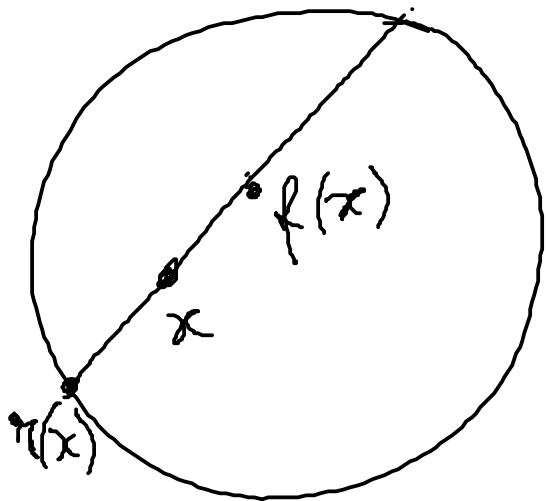


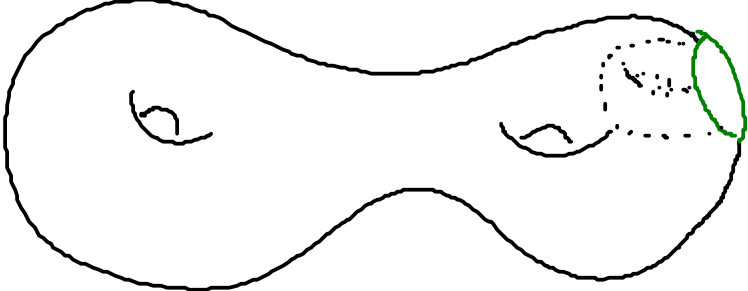
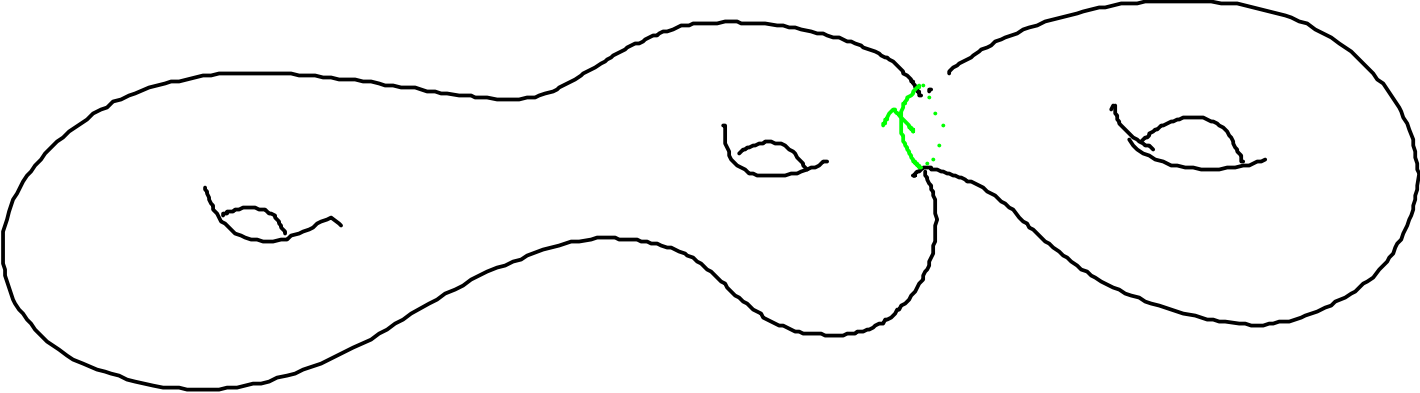


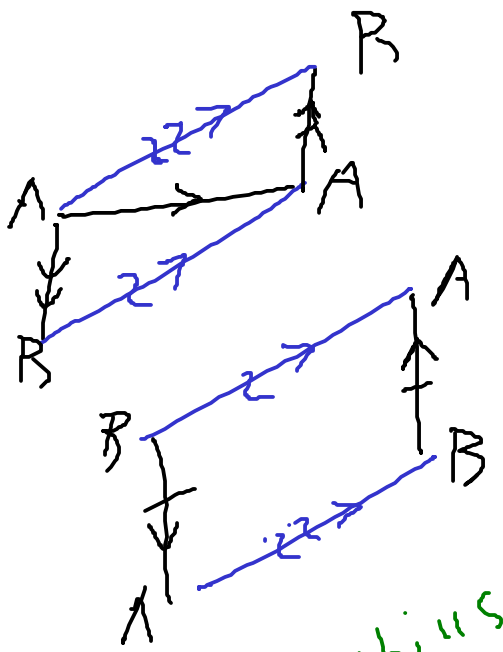
$$f: D^2 \rightarrow D^2$$

Tesi:  $\exists x \in D^2$

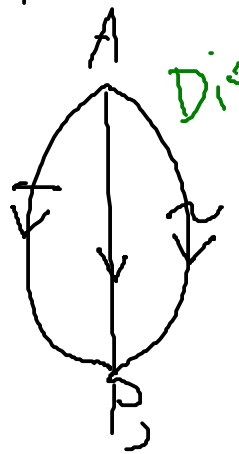
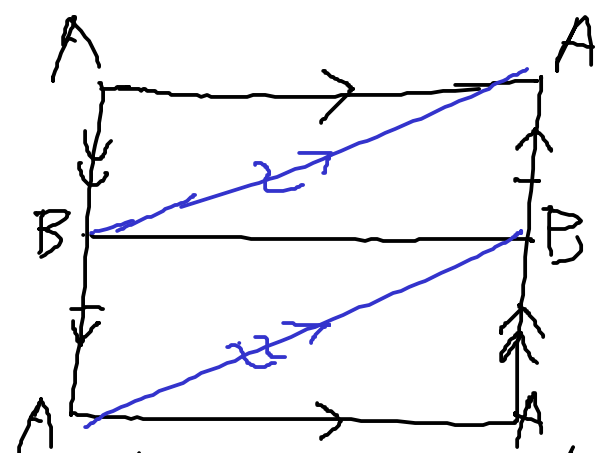
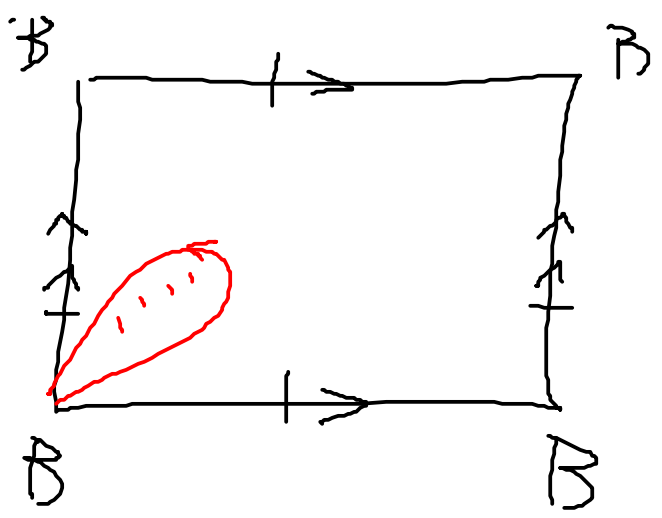
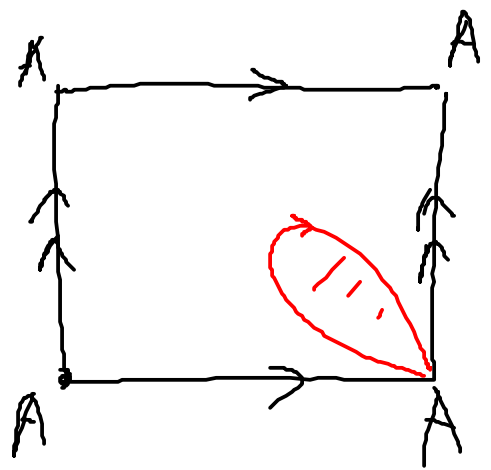
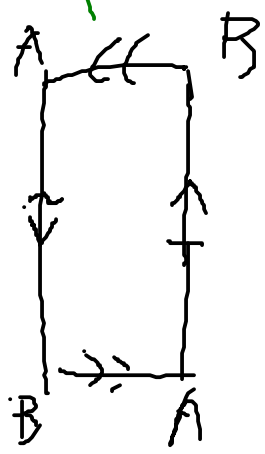
$$\text{t.c. } f(x) = x$$







Möbius



DISCO

